Stable · Durable · Performance G31-M7G DVI

Better than ever
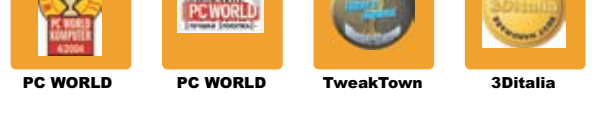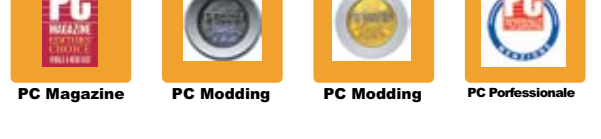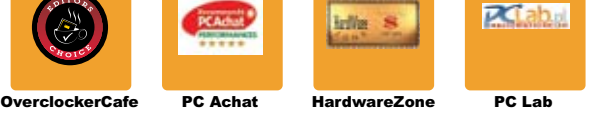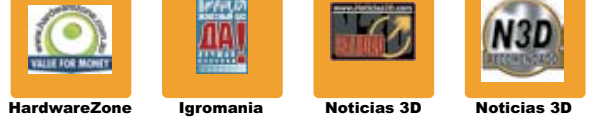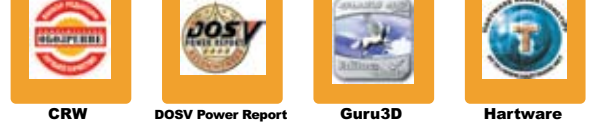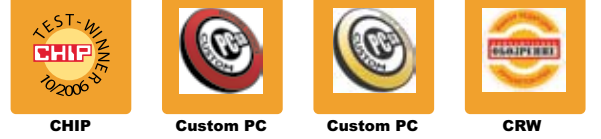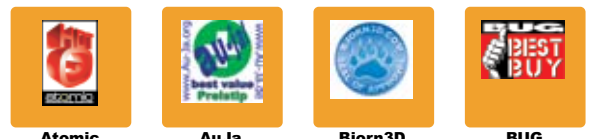
Front Audio Connector

- *Front-Audioanschluss
- *Connecteur Audio du panneau avant
- *Connettore audio frontale
- *Conector de sonido frontal
- *Conector de audio frontal
- *Przednie złącze audio
- *Входной звуковой разъём
- *フロントオーディオコネクタ
- *منفذ الصوت الأمامي

1 Mic Left in	2 Ground
3 Mic Right in	4 GPIO
5 Right line in	6 Jack Sense
7 Front Sense	8 Key
9 Left line in	10 Jack Sense

CD-IN Connector

- *CD-IN-Anschluss
- *Connecteur d'entrée CD
- *Connettore CD-in
- *Conector de entrada de CD
- *Conector para entrada de CDs
- *Złącze wejścia CD
- *Разъём ввода для CD
- *CDインコネクタ
- *CD-IN منفذ

1 Left Channel Input
2 Ground
3 Ground
4 Right Channel Input

Serial Port Connector

- *Serieller Anschluss *Conector Puerto serie
- *Connecteur de Port série *Conector da Porta série
- *Connettore Porta seriale *Złącze Port szeregowy
- *Разъём Последовательный порт *シリアルポートコネクタ
- *منفذ تسلسلي

5.1-Channels HD Audio

- *Unterstützt High-Definition Audio / 5.1-Kanal-Audioausgabe
- *Prise en charge de l'audio haute définition / Sortie audio à 5.1 voies
- *Supporto audio High-Definition (HD) / Uscita audio 5.1 canali
- *Soporte de sonido de Alta Definición / Salida de sonido de 5.1 canales
- *Suporta a especificação High-Definition Audio / Saída de som de 5.1 canais
- *Obsługa High-Definition Audio / 5.1 kanałowe wyjście audio
- *Звуковая поддержка High-Definition / 5.1 канальный звуковой выход
- *ハイデフィニションオーディオのサポート / 5.1 チャンネルオーディオアウト
- *تدعم تقنية الصوت عالي التعريف من/ 5.1 قنوات لخرج الصوت

Printer Port Connector

- *Druckeranschluss Anschluss *Conector da porta impressora
- *Connecteur de Port d'imprimante *Złącze Port drukarki
- *Connettore Porta stampante *プリンタポートコネクタ
- *Conector Puerto de impresora *منفذ طابعة
- *Разъём Порт подключения принтера

S/PDIF-OUT Connector

- *S/PDIF-Ausgangsanschluss
- *Connecteur de sortie S/PDIF
- *Connettore output SPDIF
- *Conector de salida SPDIF
- *Conector de saída S/PDIF
- *Złącze wyjścia S/PDIF
- *Разъём вывода для S/PDIF
- *S/PDIFアウトコネクタ
- *S/PDIF منفذ

1 +5V
2 SPDIF_OUT
3 Ground

Floppy Disk Drive Connector

- *Diskettenlaufwerkanschluss *Conector da unidade de disquetes
- *Connecteur de disquette *Złącze napędu dyskietek
- *Connettore floppy *Разъём НГМД
- *Conector disco flexible *フロッピーコネクタ
- *منفذ محرك أقراص مرنة

Front Panel Connector

- *Frontplatenanschluss
- *Connecteur du panneau avant
- *Connettore pannello frontale
- *Conector de panel frontal
- *Conector do panel frontal
- *Złącze panela przedniego
- *Разъём на лицевой панели
- *フロントパネルコネクタ
- *منفذ اللوحة الأمامية

Speaker
Power LED
HDD LED
Reset
On/Off

USB 2.0 Connectors

- *USB 2.0-Anschluss *Conector USB 2.0 *USB 2.0-разъём
- *Connecteur USB 2.0 *Conector USB 2.0 *USB 2.0コネクタ
- *Connettore USB 2.0 *Złącze USB 2.0 *USB 2.0منفذ

PCI Slots

- *PCI-Steckplatz *Ranura PCI *Слот PCI
- *Fente PCI *Ranhura PCI *PCIスロット
- *Alloggio PCI *Gniazdo PCI *PCI فتحة

SATA Connectors

- *SATA-Anschluss *Conector SATA *Разъём SATA
- *Connecteur SATA *Conector SATA *SATAコネクタ
- *Connettore SATA *Złącze SATA *SATA منفذ

Clear CMOS Header

- *"CMOS löschen"-Sockel
- *Embase d'effacement CMOS
- *Collettore cancellazione CMOS
- *Cabecera de borrado de CMOS
- *Conector para limpeza de CMOS
- *Złącze głowkowe kasowania CMOS
- *Открытое контактирующее приспособление CMOS
- *CMOSクリアヘッダ
- *CMOS وصلة مسح

Pin 1-2 Close: Normal Operation (default)
Pin 2-3 Close: Clear CMOS data

System Fan Header

- *System-Lüfter-Sockel
- *Embase de ventilateur système
- *Collettore ventolina sistema
- *Cabecera de ventolina de sistema
- *Conector da ventoinha do sistema
- *Złącze głowkowe wentylatora systemowego
- *Контактирующее приспособление вентилятора системы
- *システムファンヘッダ
- *وصلة مروحة النظام

1 Ground
2 +12V
3 FAN RPM rate sense

Back Panel I/O Connectors

- *Rückseiten-E/A *Entradas/Saídas no painel traseiro
- *E/S du panneau arrière *Back Panel I/O
- *I/O pannello posteriore *Задняя панель средств ввода-вывода
- *Panel trasero de E/S *背面パネルI/O
- *منفذ دخل/خرج اللوحة الخلفية

PS/2 Mouse
PS/2 Keyboard
VGA
DVI-D
USBX2 USBX2
10/100/1000 Mbps LAN
Line In/ Surround
Line Out
Mic In 1/ Bass/ Center

Power Connector (4pin)

- *Stromanschluss(4-polig)
- *Connecteur d'alimentation(4 broches)
- *Connettore alimentazione (4 pin)
- *Conector de alimentación(4 patillas)
- *Conector de alimentação(4 pinos)
- *Złącze zasilania (4 pinowe)
- *Разъём питания (4 вывод)
- *電源コネクタ(4ピン)
- *منفذ توصيل الطاقة(4دبوس)

1 +12V
2 +12V
3 Ground
4 Ground

LGA 775 for Intel Core2Duo/Core2Quad/ Pentium Dual-Core/Celeron Dual-Core/ Celeron 4xx Processor
FSB: 800/1066/1333/1600 MHz

- *LGA 775 : Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx Prozessoren
- *LGA 775 : Processeurs Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775 : Processore Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775 : Procesador Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775 : Processador Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775 : Procesor Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775 : Процессор Intel Core2Duo/Core2Quad/Pentium Dual-Core/Celeron Dual-Core/Celeron 4xx
- *LGA 775: المعالجات Intel Core2Duo/Core2Quad/Pentium Dual-Core/ : LGA 775 Celeron Dual-Core/Celeron 4xx

NB Chipset : Intel G31

- *NB Chipsatz: Intel G31 *Набор микросхем: Intel G31
- *NB Conjunto de chips: *チップセット: Intel G31
  Intel G31 *مجموعة الشرائح Intel G31
- *Intel G31

CPU Fan Header

- *CPU-Lüfter-Sockel
- *Embase de ventilateur UC
- *Collettore ventolina CPU
- *Cabecera de ventilador de CPU
- *Conector da ventoinha de CPU
- *Złącze głowkowe wentylatora procesora
- *Контактирующее приспособление вентилятора центрального процессора
- *CPUファンヘッダ
- *وصلة مروحة وحدة المعالجة المركزية

1 Ground
2 +12V
3 FAN RPM rate sense
4 Smart Fan Control

Power Connector (24pin)

- *Stromanschluss(24-polig) *Conector de alimentação (24 pinos)
- *Connecteur d'alimentation (24 broches) *Złącze zasilania (24 pinowe)
- *Connettore alimentazione(24 pin) *Разъём питания (24 вывод)
- *Conector de alimentación (24 pin) *電源コネクタ(24ピン)
- *Conector de alimentação (24 patilhas) *منفذ توصيل الطاقة(24دبوس)

IDE Connector

- *IDE-Anschluss *Conector IDE *Разъём IDE
- *Connecteur IDE *Conector IDE *IDEコネクタ
- *Connettore IDE *Złącze IDE *IDEمنفذ

PCI-Express x16 Slot

- *PCI Express x16-Steckplatz *Ranhura PCI Express x16
- *Fente PCI Express x16 *Gniazdo PCI Express x16
- *Alloggio PCI Express x16 *Слот PCI Express x16
- *Ranura PCI express x16 *PCI Express x16スロット
- *PCI Express x16فتحة

DDR2 DIMM Slots
Each DIMM supports 256MB/512MB/ 1GB/2GB DDR2 667/800/1066

- *DDR2 DIMM-Steckplätze
  Jeder DIMM unterstützt 256MB/512MB/1GB/2GB DDR2 667/800/1066
- *Fentes DDR2 DIMM
  Chaque DIMM prend en charge des ddr2 667/800/1066 de 256Mo/512Mo/1Go/2Go
- *Alloggi DIMM DDR2
  Ciascun DIMM supporta DDR2 667/800/1066 256MB/512MB/1GB/2GB
- *Ranuras DIMM DDR2
  Cada DIMM admite DDR2 667/800/1066 de 256MB/512MB/1GB/2GB
- *Ranhuras DIMM DDR2
  Cada módulo DIMM suporta uma memória DDR2 667/800/1066 de 256MB/512MB/1GB/2GB
- *Gniazda DDR2 DIMM
  Każde gniazdo DIMM obsługuje moduły 256MB/512MB/1GB/2GB DDR2 667/800/1066
- *Слоты DDR2 DIMM
  Каждый модуль DIMM поддерживает 256MБ/512MБ/1ГБ/2ГБ DDR2 667/800/1066
- *DDR2 DIMMスロット
  各DIMMは 256MB/512MB/1GB/2GB DDR2 667/800/1066をサポート
- *منافذ DDR2 DIMM كل فتحة تدعم DDR2 667/800/1066 من نوع DIMM فتحة كل تدعم 256 أو512 أو1 جيجا أو2 جيجا بايت و256 بايت

G31-M7G DVI
DDR2_A1 VER:0.60
DDR2_B1

Step 1:CPU Installation

LGA 775 CPU Socket
Supports Intel Core2Duo/Core2Quad/
Pentium Dual-Core/Celeron Dual-Core/
Celeron 4xx processor
FSB: 800/1066/1333/1600 MHz

Step 1: Remove the protection cap from the CPU socket and keep the cap well.

ⓘ CAUTION
Our RMA policy only accepts the mainboard comes with the cap on the CPU socket, so please keep the protection cap well after installation. We will not be responsible for any damage to the pin-leg of the CPU socket resulting from misplacement/loss/incorrect removal of the protection cap.

Step 2: Pull the socket locking lever out from the socket and then raise the lever up to a 90-degree angle.
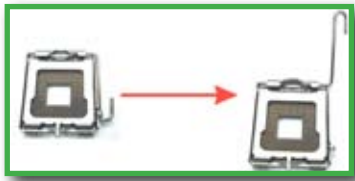
Step 3: Look for the triangular cut edge on socket, and the golden dot on CPU should point forwards this triangular cut edge. The CPU will fit only in the correct orientation.
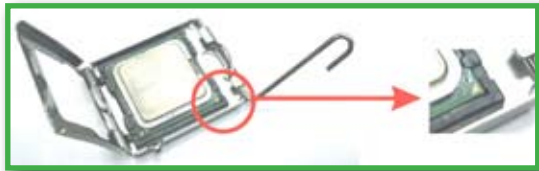
Step 4: Hold the CPU down firmly, and then lower the lever to locked the position.

Step 5: Place the CPU fan assembly on top of the installed CPU and make sure that the four fasteners match the motherboard holes. Orient the assembly and make the fan cable is closest to the CPU fan connector.
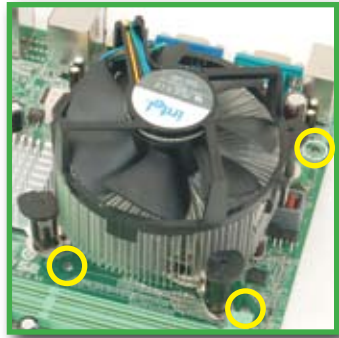
Step 6: Press down two fasteners at one time in a diagonal sequence to secure the CPU fan assembly in place. CPU installation completes.
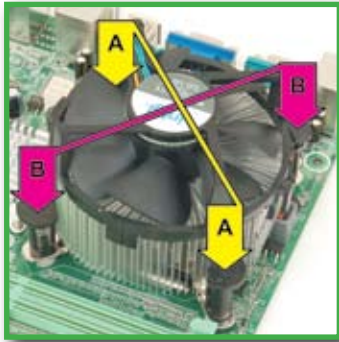
Note:
Do not forget to connect the CPU fan connector. For further information, please refer to **Step 3:Power Connection**.

Step 2:Memory Installation

DDR2 DIMM Slot x2
Supports DDR2 667/800/1066
Each DIMM supports 256MB /
512MB / 1GB / 2GB DDR2
Max Memory Capicity is 4GB

Step 1: Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.
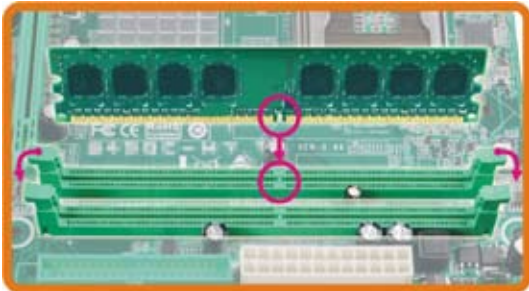
Step 2: Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.

Step 3:Power Connection

CPU Fan Power (JCFAN1)
JCFAN1 supports 4-pin head connector. When connecting with wires onto connectors, please note that the black wire is Ground and should be connected to pin#1(Ground).

24-pin ATX Power (JATXPWR1)
JATXPWR1 is the main power supply connector located along the edge of the board next to the DIMM slots. Firmly plug the power supply cable into the connector and make sure it is secure.

4-pin ATX Power   24-pin ATX Power   CPU Fan Power
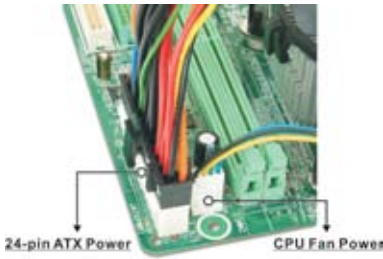
4-pin ATX Power (JATXPWR2)
JATXPWR2, the 4-pin ATX 12V power connection, is used to provide power to the CPU. Align the pins to the connector and press firmly until seated.

Installation Complete
Follow the three steps to finish CPU, memory, and power installation, and the whole motherboard assembly should looks like this picture.

Clear CMOS Header

The Occasion to Clear CMOS
1. Forgot the supervisor/user password preset in the BIOS menu.
2. Unable to boot up the system because the CPU clock was incorrectly set in the BIOS menu.
3. The CMOS data becomes corrupted.

Clear CMOS Header (JCMOS1)

| 1 | **Pin 1-2 Close:** Normal Operation (default) |
| 3 | |

| 1 | **Pin 2-3 Close:** Clear CMOS data |
| 3 | |

Clear CMOS Procedure
1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

NOTE: How to Setup Jumpers

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is "close", if not, that means the jumper is "open".

Pin Opened   Pin Closed   Pin 1-2 Closed

Driver & Manual

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.
You will see following window after you insert the CD.

Click on **Driver** to start the process of driver installation.

The installation program will detect your system to find out the driver needed to be installed.

Click on **Install** and the program will begin to install the proper driver for your system.

When the driver installation completes, there will be a dialogue appears asking you to restart the system. Please click on **YES** to restart your computer.

For more information of the mainboard setup and BIOS setup, please refer to the full version manual in the setup CD.

In the Setup CD auto-run program, click on **Manual** and then click on **Mainboard User Manual** or **BIOS User Manual**.
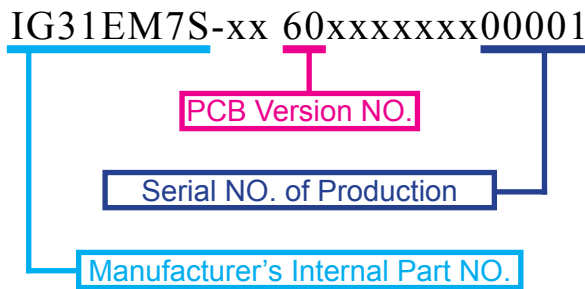
Package Checklist

▲ Installation Guide x 1   ▲ HDD Cable x 1
▲ Fully Setup Driver CD x 1   ▲ Rear I/O Panel x 1
   (full version manual files inside)
▲ Serial ATA Cable x 1   ▲ FDD Cable x 1 (optional)
▲ Serial ATA Power Cable x 1 (optional)   ▲ Parallel Printer Cable x1 (optional)

Note: The package contents may differ by area or your motherboard version.

Serial NO. Definition

IG31EM7S-xx 60xxxxxxx00001

PCB Version NO.

Serial NO. of Production

Manufacturer's Internal Part NO.

Q&A of Technical Support

Q: How to get a quick response for my request on technical support?
A: Please carry out a simple troubleshooting before sending "Technical Support Form" on our website.

Q: Is the motherboard dead? Do I need to return it to where I bought from or go through an RMA process?
A: After you had gone through the troubleshooting procedures, yet the problem still exists, or you find an evident damage on the motherboard. Please contact your reseller shop to get the RMA service.

Copyright and Warranty Notice

G3 I-M7G DVI
Quick Installation Guide

Mainboard
For Intel Processor